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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,542	02/21/2001	Toshihiro Sato	2-32	5615

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LAW OFFICE OF DAVID G POSZ
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EXAMINER

MOHANDESI, IRAJ A

ART UNIT PAPER NUMBER

2834

DATE MAILED: 05/06/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/788,542

Applicant(s)

SATO ET AL.

Examiner

Iraj A Mohandesi

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 February 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-12 and 18 is/are rejected.
- 7) ☒ Claim(s) 5 and 13-17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02/21/2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the capacitor connected in parallel with said pair of noise suppressing coil in claims 6, 7 must be shown or the feature canceled from the claims. No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1-4, 6-12, 18, are rejected under 35 U.S.C. 103(a) as being unpatentable over **Japanese Application 6-9355** and in view of **Perin 6,078,117** and **Saito 4,920,289**.

Application '355 discloses a motor comprising; a rotor (6); an armature coil (7); a conductive case (5); a member for grounding the case (Fig. 1, the element attached with screw to the case 5); a shaft having a portion extending outward from said case (1); a bearing fixed to the case (2); means, including conductive member in contact with said shaft and the case (5D); the means comprises a resilient contact member

integrated with said case (5D); wherein said means comprises a parallel portion extending in the direction in parallel with said shaft and a slant portion sanding towards the center of the said shaft (5, Fig. 1) a housing for fixing said case, wherein said means comprises a disk portion (5, 5D , Fig. 4) ;a magnetic core (8); a permanent magnet disposed opposite said magnetic core to magnetically link to each other. (Fig. 1)

Application'355 however fails to teach a motor comprises a noise suppressing circuit having a pair of noise suppressing coils connected in series with staid armature coil and a capacitor connected in parallel; a conductive bearing holder fixed to the case having resilient contact member in contact with said bearing;

Perin'117 discloses a motor comprises a noise suppressing circuit (10, column 10 line 26) having a pair of noise suppressing coils connected in series with said armature coil and a capacitor connected in parallel with said pair of noise suppressing coils;(Fig. 10) a conductive bearing holder fixed to the case having resilient contact member in contact with said bearing(18 ,column 9,line 33-46) for the purpose of the noise suppressing and a conductive path between bearing holder and the case.

However the combination of **Application'355** and Perin'117 fails to teach a resinous bearing holder with a spherical outer and spherical inner surface.

Saito'289 discloses a motor having a resinous bearing holder (20 column 2 line 30-34) for the purpose of maximizing the isolation level between bearing and case.

Therefore it would have been obvious to one having skill in the art at the time the invention was mad to combine the conductive bearing holder and the noise suppressing circuit (a low pass filter comprising of a pair of coils in series, a capacitor in parallel with

armature) taught by **Perin'117** with **Application'355** to reduced the electromagnetic noises, which are generated between the brushes and the commentators and to advance an electrically conductive path between bearing, bearing holder and case , and also to combine a resinous bearing holder for isolating purpose taught by **Saito'289** to maximize the isolation level between bearing and case.

Allowable Subject Matter

3. Claims 5,13-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is (703) 305-3242. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.


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